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No. 5448

EL 1215

THE RANGE

**PROGRESS REPORTS AND FINAL REPORT TO
LICENCE EXPIRY/SURRENDER,
FOR THE PERIOD 11/1/1984 TO 10/1/1985**

Submitted by
CRA Exploration Pty Ltd
1985

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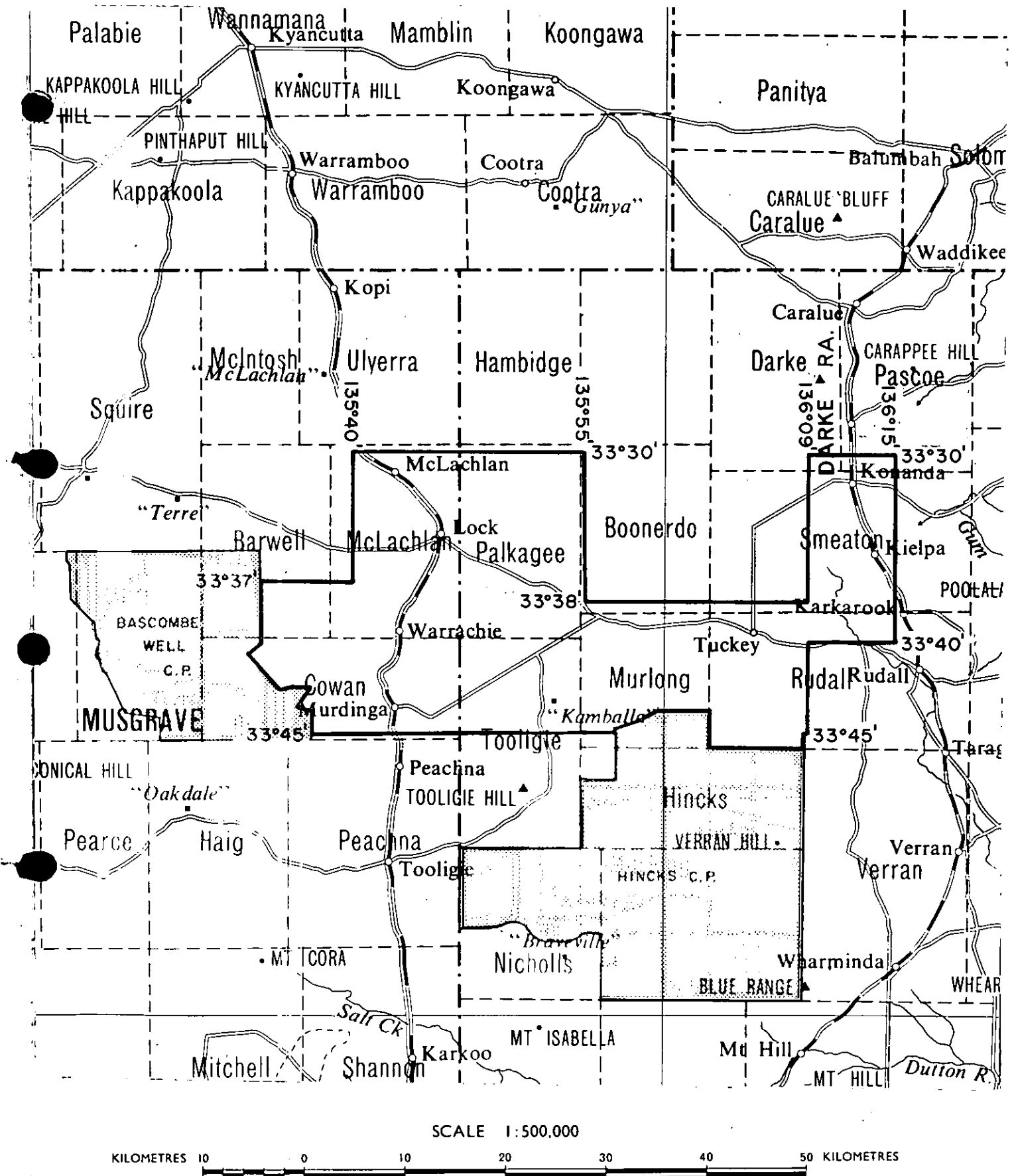
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Government of South Australia
Department of State Development



APPLICANT: CRA EXPLORATION PTY. LIMITED

DM: 255/83

1:250000 PLANS: KIMBA

LOCALITY: LOCK AREA - EYRE PENINSULA

DATE GRANTED: 11-1-84

DATE EXPIRED: 10-7-84

10-1-85

EXPIRED

AREA: 1208 square kilometres (approx.)

EL No: 1215

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TENEMENT HOLDER: C.R.A. Exploration Pty. Ltd.

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CRA EXPLORATION PTY. LIMITED

FIRST QUARTERLY REPORT ON THE RANGE E.L. 1215,
SOUTH AUSTRALIA, FOR THE PERIOD ENDING 10TH APRIL, 1984

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the property of C.R.A. Exploration
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written consent of the Company.

AUTHOR: A.K. SCOTT

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S.A.D.M.E.

DATE: 4TH MAY, 1984

SUBMITTED BY: R.J. Lane for A.K. Scott

ACCEPTED BY:

Alvin D. Turnbull

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1. INTRODUCTION

The Range E.L. 1215 of 1208 km² is situated in the Lock area of the Eyre Peninsula (plan no. SAa 2723). It was granted on 11th January 1984 for a period of six months.

2. EXPLORATION

E.L. 1215 was obtained to cover the remainder of the eastern (or Kilroo) sub-basin of the Polda Basin not already covered by CRAE's Tuckey E.L. 1054. The exploration target in this sub-basin, and hence in E.L. 1215, is potash in pre-Permian sediments.

No work has been undertaken specifically in The Range E.L. However the drilling of diamond drill hole 83KD1A in the Tuckey E.L. is considered to be an effective investigation of both The Range and Tuckey E.L.'s, because both cover a single geological entity - namely the Kilroo sub-basin.

83KD1A was a major stratigraphic hole of 1398 metres depth which provided a considerable amount of entirely new information on the pre-Permian sequence of the onshore Polda Basin and particularly of the Kilroo sub-basin. The hole penetrated 793 metres of red-bed siltstone/mudstone containing two intercalations of altered amygdaloidal basalts, of probable Lower Cambrian age. Details can be found in CRAE reports on Tuckey E.L. 1054.

The expenditure on Tuckey since October 1983 has exceeded \$200,000, most of which is attributed to the drilling of 83KD1A. This is far in excess of the combined S.A.D.M.E. expenditure commitment of \$40,000 on both Tuckey and The Range.

3. RECOMMENDATION

The prospectivity of E.L. 1215 will be assessed in the light of the results from 83KD1A, and incorporating all available open file data at the South Australian Department of Mines and Energy.

R.J.L. Lane
for

A.K. SCOTT

AKS/dp

EXPENDITURE

Expenditure for the period ended 31st March 1984, the nearest accounting period was \$4104.00, as listed below.

Payroll	\$ 1085
Property	409
Tenements	2133
Overheads	477
TOTAL	<hr/> \$4,104 <hr/>

LOCATION

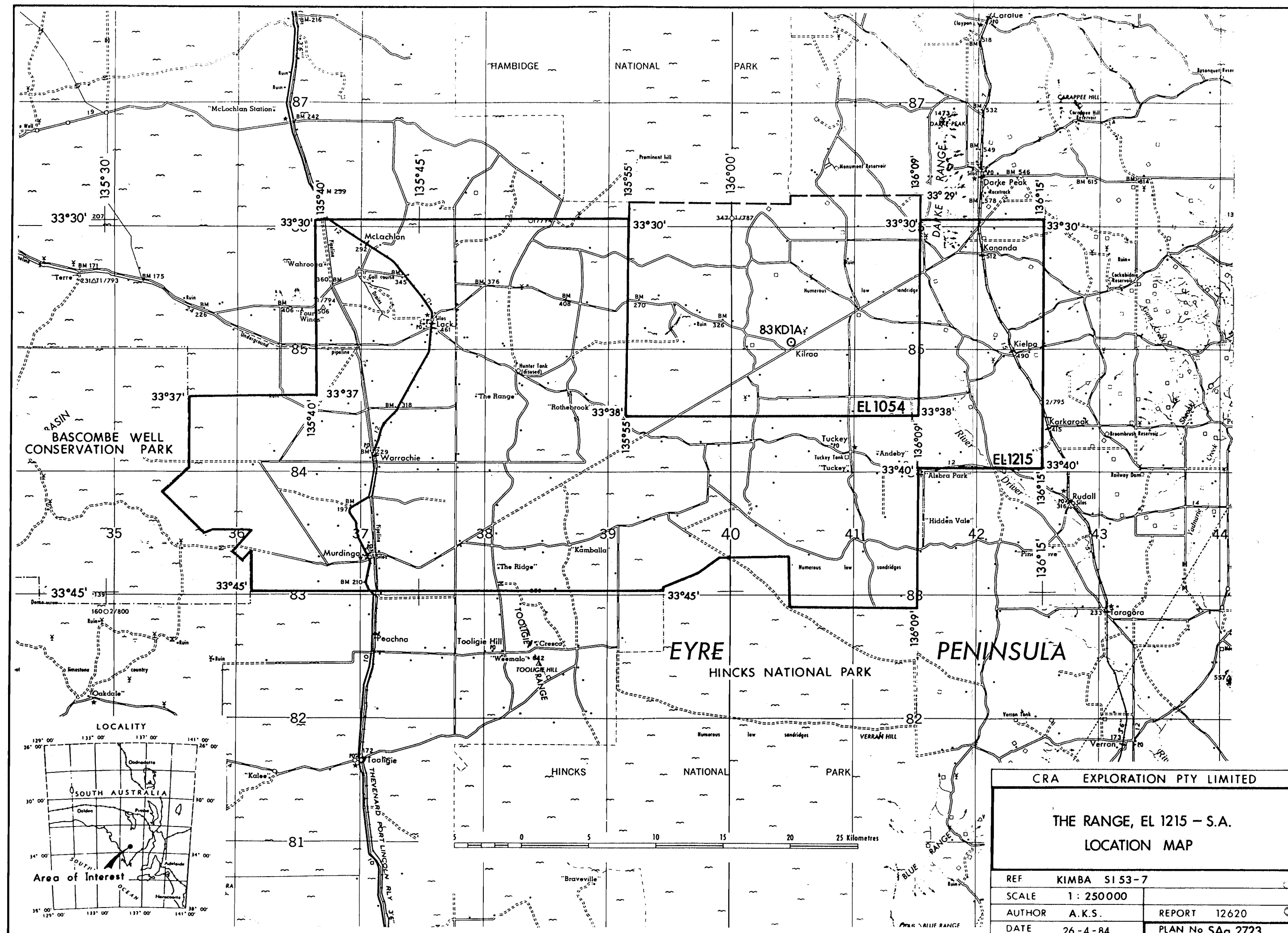
Kimba SI 53-7 1:250 000 sheet

KEYWORDS

Potash, Basin, Drill-diamond.

LIST OF PLANS

<u>Plan Nos.</u>	<u>Title</u>	<u>Scale</u>
SAa 2723	The Range E.L. 1215 Location Map	1:250 000



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SECOND QUARTERLY REPORT FOR
THE RANGE E.L. 1215, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 10TH JULY, 1984

AUTHOR: A. K. SCOTT

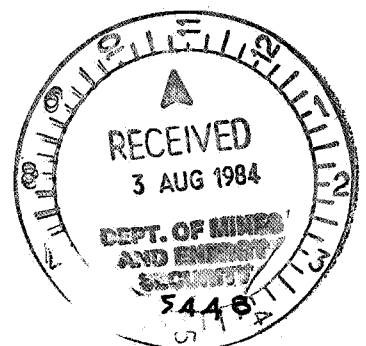
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DATE: 25TH JULY, 1984

SUBMITTED BY: *AK Scott*

ACCEPTED BY: *L. J. L. J.*

12780



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1.0 INTRODUCTION

The Range E.L. 1215 of 1208 square kilometres is situated in the Lock area of the Eyre Peninsula (plan no. SAa 2723). It was granted on 11th January, 1984, for a period of six months.

2.0 EXPLORATION

E.L. 1215 was obtained to cover the remainder of the eastern (or Kilroo) sub-basin of the Polda Basin not already covered by CRAE's Tuckey E.L. 1054. The exploration target in this sub-basin, and hence in E.L. 1215, is potash in pre-Permian sediments.

No work has been undertaken specifically in The Range E.L. However, the drilling of diamond drill hole 83KD1A in the Tuckey E.L. is considered to be an effective investigation of both The Range and Tuckey E.L.'s, because both cover a single geological entity - namely the Kilroo sub-basin.

83KD1A was a major stratigraphic hole of 1398 metres depth which provided a considerable amount of entirely new information on the pre-Permian sequence of the onshore Polda Basin and particularly of the Kilroo sub-basin. The hole penetrated 793 metres of red-bed siltstone/ mudstone containing two intercalations of altered amygdaloidal basalts, of probable Lower Cambrian age. Details can be found in CRAE reports on Tuckey E.L. 1054.

Further work to define the configuration of the Kilroo sub-basin is planned, and this is likely to be carried out in both the Tuckey and The Range E.L.'s.

3.0 RECOMMENDATION

E.L. 1215 should be renewed for another six months to enable the above work to be undertaken.



A. K. SCOTT

AKS/pw

EXPENDITURE

Expenditure for the period ended 30th June, 1984, the nearest accounting period was \$2302.00, as listed below.

	\$
Payroll	1550
Supplies	23
Vehicle	61
Property	52
Overheads	616

Total	\$2302

013

LOCATION

Kimba SI 53-7 1:250 000 sheet

KEYWORDS

Potash, Basin, Drill-diamond.

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 2723	The Range E. L. 1215 Location Map	1:250 000

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THIRD QUARTERLY REPORT FOR
THE RANGE E. L. 1215, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 10TH OCTOBER, 1984

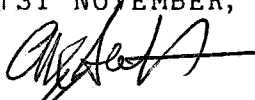

AUTHOR: A. K. SCOTT

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DATE: 1ST NOVEMBER, 1984

SUBMITTED BY:

ACCEPTED BY:

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1.0 INTRODUCTION

The Range E.L. 1215 of 1208 square kilometres was granted on 11th January, 1984, for a period of six months, and then renewed on 11th July for a further six months. The E.L. covers part of the Polda Basin on the west coast of the Eyre Peninsula between Lock and Kielpa (see plan no. SAa 2723).

The exploration target is potash in pre-Permian sediments.

2.0 EXPLORATION

No field work was carried out during the quarter.



A. K. SCOTT

AKS/pw

EXPENDITURE

018

Expenditure for the period ended 30th September, 1984, the nearest accounting period was \$795.00, as listed below.

	\$
Payroll	175
Supplies	25
Vehicle	110
Property	380
Tenements	5
Overheads	100

Total	\$795

LOCATION

019

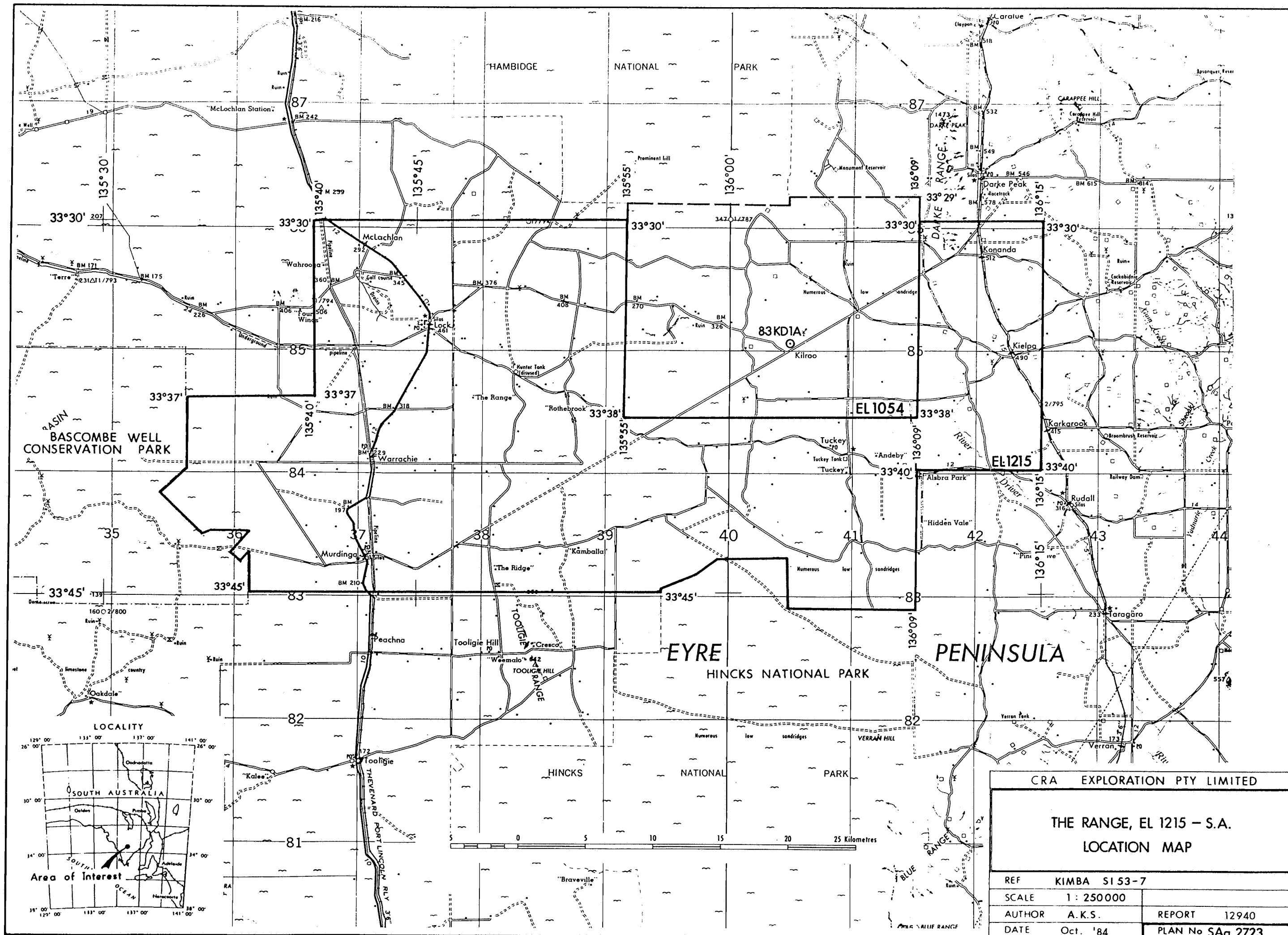
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KEYWORDS

Potash, Basin

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 2723	The Range E. L. 1215 Location Map	1:250 000



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FOURTH QUARTERLY REPORT FOR
THE RANGE E.L. 1215, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 10TH JANUARY, 1985.

AUTHOR: A.K. SCOTT

COPIES TO: CIS CANBERRA
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DATE: 4TH FEBRUARY, 1985

SUBMITTED BY: *J.P. Howard*

ACCEPTED BY:

[Signature]



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1. INTRODUCTION

The Range E.L. 1215 of 1208 square kilometres was granted on 11th January, 1984, for a period of six months and then renewed on 11th July, 1984, for a further six months. The E.L. covers part of the Polda Basin on the west coast of the Eyre Peninsula between Lock and Kielpa (see plan no. SAa 2723).

The exploration target is potash in pre-Permian sediments.

2. EXPLORATION

No field work was carried out during the quarter.

A.K. SCOTT *per J.P. Howard*

AKS/pw

- 2 -

EXPENDITURE

Expenditure for the period ended 31st December, 1984, the nearest accounting period was \$ 99.00, as listed below.

	\$
Payroll	75
Overheads	24
	—
Total	\$ 99

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LOCATION

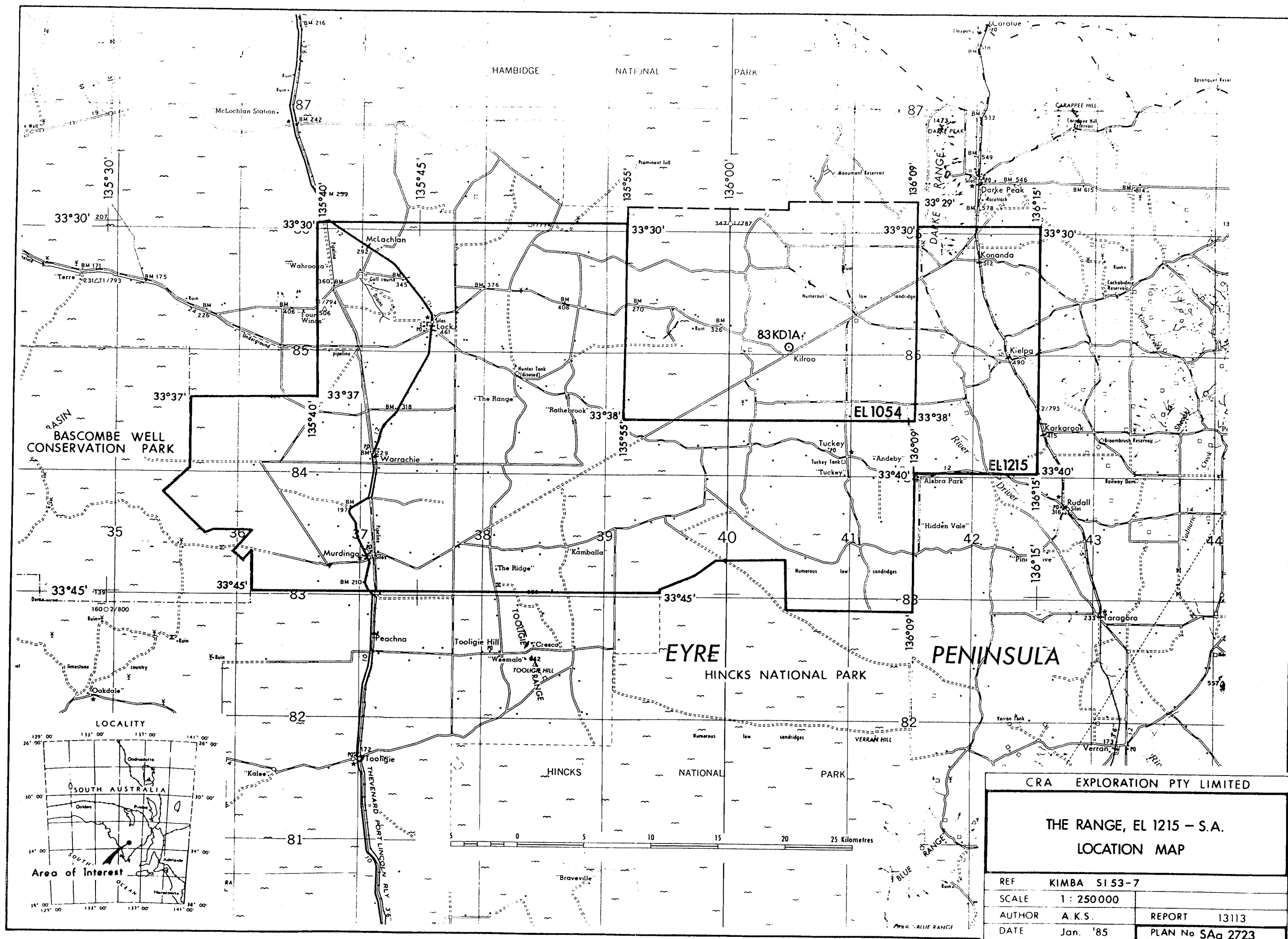
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KEYWORDS

Potash, Basin

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 2723	The Range E.L. 1215 Location Map	1:250 000





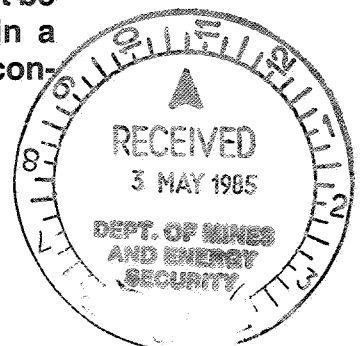
CRA EXPLORATION PTY LIMITED

SUBJECT: FIFTH AND FINAL REPORT FOR THE RANGE E.L. 1215,
SOUTH AUSTRALIA, FOR THE PERIOD ENDING 10TH MARCH, 1985

AUTHOR: J.P. HOWARD

DATE: 16TH APRIL, 1985

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CRAE REPORT NO: 13251

CRA EXPLORATION PTY. LIMITED

FIFTH AND FINAL REPORT FOR
THE RANGE E.L. 1215, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 10TH MARCH, 1985.

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written consent of the Company.

AUTHOR: J.P. HOWARD

COPIES TO: CIS CANBERRA
SADME

DATE: 16TH APRIL, 1985

SUBMITTED BY:

ACCEPTED BY:

R.J.H. Hemmings
J.D. Lil

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1. INTRODUCTION

The Range E.L. 1215 of 1208 square kilometres was granted on 11th January, 1984, for a period of six months and then renewed on 11th July, 1984 and 11th January, 1985, for further periods of six months. The E.L. covers part of the Polda Basin on the west coast of the Eyre Peninsula between Lock and Kielpa (see plan no. SAa 2723).

The exploration target is potash in pre-Permian sediments.

2. EXPLORATION

When deep drilling for potash in the Kilroo pre-Permian sub-basin on the adjacent E.L. 1054 returned discouraging results, field work planned for E.L. 1215 was not carried out.

R.J.L. Howe
for

J.P. HOWARD

JPH/dp

EXPENDITURE

Expenditure for the period ended 31st March, 1985, the nearest accounting period was \$ 534.00, as listed below.

	\$
Payroll	323
Overheads	211
	<hr/>
Total	\$ 534
	<hr/>

LOCATION

Kimba SI 53-7 1:250 000 sheet

KEYWORDS

Potash, Basin

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 2723	The Range E.L. 1215 Location Map	1:250 000

